

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In the Application of:

REBECCA E. CAHOON ET AL.

CASE NO.: BB1159 PCT

APPLICATION NO.: PCT/US99/16354

GROUP ART UNIT: UNKNOWN

FILED: JULY 20, 1999

EXAMINER: UNKNOWN

FOR: CHORISMATE BIOSYNTHESIS ENZYMES

TECH CENTER 1600/2300

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PRELIMINARY AMENDMENT

Assistant Commissioner for Patents  
Washington, DC 20231

Sir:

Please amend the application as follows:

In the specification

At page 4, line 24, please replace "effect" with  
"affect".

At page 6, line 13, please replace "effecting" with  
"affecting".

**In the Claims:**

Please cancel claims 1-12.

Please add the following new claims:

- 13. An isolated polynucleotide that encodes a  
3-dehydroquinate synthase having a sequence identity of  
at least 80% based on the Clustal method of alignment  
when compared to a polypeptide selected from the group  
consisting of SEQ ID NOs:2, 4, 6, and 8.
14. A polynucleotide sequence of Claim 13, wherein the  
sequence identity is at least 85%.
15. A polynucleotide sequence of Claim 13, wherein the  
sequence identity is at least 90%.
16. A polynucleotide sequence of Claim 13, wherein the  
sequence identity is at least 95%.
17. The polynucleotide of Claim 13 wherein the polynucleotide  
encodes a polypeptide selected from the group consisting  
of SEQ ID NOs:2, 4, 6, and 8.